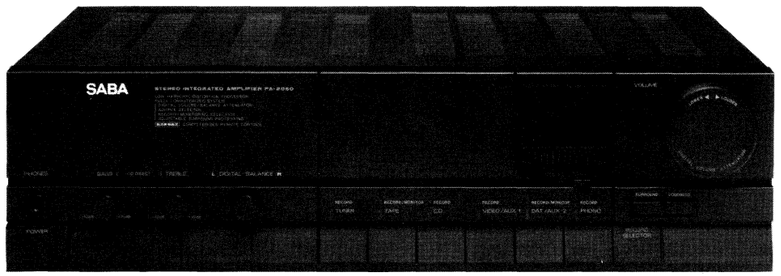
SABA Service-Instruction | HiFi 281

STEREO INTEGRATED AMPLIFIER PA-2060 | PA-2060



Wichtige Hinweise

Die Sicherheit des Gerätes muß nach einer Reparatur oder Überprüfung erhalten bleiben. Es dürfen deshalb keine konstruktiven Merkmale des Gerätes sicherheitsmindernd verändert werden (z. B. müssen Abdeckungen ordnungsgemäß angebracht sein).

Ersatzteile müssen hinsichtlich ihrer Daten und ihrer Merkmale dem getauschten Teil entsprechen, damit die Sicherheit des Gerätes nicht vermindert wird. Verwenden Sie deshalb nur Original-Ersatzteile.

Important note

The unit must remain safe after repair or checking. Therefore, no design features of the unit may be altered which would result in a reduction of safety (e. g. covers must be properly replaced).

With regards to their data and technical features, spare parts must correspond with the replaced part, so as not to reduce the safety of the unit. Therefore, only use original spare parts.

Avvisi importanti

La sicurezza dell'apparecchio deve rimanere conservata anche dopo una riparazione o un controllo. Perciò non è permesso di variare connotati costruttivi dell'apparecchio in modo che non garantiscono la sicurezza originaria (p. es. gli schemi di protezione devono essere fissati a regola d'arte).

I pezzi di ricambio devono corrispondere al pezzo da sostituire nei loro dati e nei loro connotati per garantire la stessa sicurezza dell'apparecchio. Usate perciò solo ricambi originali.

Recommandations importantes

L'appareil doit remplir les mêmes conditions de sécurité après une réparation ou une révision. Aucune caractéristique de construction de l'appareil ne doit donc être modifiée de telle sorte que la sécurité de l'appareil en soit diminuée (par ex., les couvercles doivent être remis en place correctement).

Les caractéristiques et les propriétés des pièces de rechange doivent coincider avec celles de la pièce qui est remplacée afin de ne pas réduire la sécurité de l'appareil. N'utilisez donc que des pièces de rechange d'origine.

Änderungen vorbehalten!

Best.-Nr. 4900017225 KD1189 15 S

Ersatzteilliste · Lista ricambi · List of spare parts · Liste de pièces détachées

SABA		PA-2060	HiFi 281 1	
Pos.	No.		Bezeichnung	Description
			Verpackung	**Packing**
	4900 068 897		Versandkarton	Packing Case
	4900 068 891		Polster links	Cushion L
	4900 068 892		Polster rechts	Cushion R
			Zubehör	**Accessory**
	4900 068 898		**Telecommander PA 2060**	**Remote Control**
	4900 068 899		- Batteriedeckel	- Battery Cap
	4900 031 420		Cinchkabel	Cinch Cable
	4900 020 146		Netzkabel	Power Cord
			Gehäuse	**Cabinet**
	4900 069 377		Frontplatte kpl. Set	Front Panel cpl.
	4900 068 878		Taste Ein-Aus	Button Power
	4900 068 950		Tastensatz Tuner... Aufnahme-Wahlschalter	Button Set Tuner... Record Selector
	4900 068 886		Taste Raumeffekt, Klang-korrektur	Button Surround, Loudness
	4900 069 378		Knopf Lautstärke	Knob Volume
	4900 068 889		Feder f. Knopf Lautstärke	Spring f. Button Volume
	4900 068 882		Schiebeknopf Raumklang	Knob Slider Surround
	4900 068 885		Knopf Tiefen, Höhen	Knob Bass, Treble
	4900 068 883		Knopf Balance	Knob Digital Balance
	4900 068 884		Feder f. Knopf Balance	Spring f. Knob Balance
	4900 068 890		Gehäuseabdeckung	Cabinet Cover
	4900 068 951		Gehäuseboden	Bottom
	4900 069 342		Gehäusefuß	Foot
			Bedienteil Platine	**Operation Board**
	4900 068 925		IA 01 U2505B	
	4900 028 039		IJ 01,20, NJM4560D - 30,50	
	4900 068 926		IS 01 HD6805/U1	
	3521 140 000		TJ 11 BC337-40	
	3521 106 000		TJ 12 BC547B	
	3521 110 000		TJ 14,16, BC548B - 19	
	3521 112 000		TJ 18 BC558B	
	3521 113 000		TS 15...19, BC558C - 21,22	
	3521 112 000		TS 54...57 BC558B	
	3512 216 000		DS 01,51...53 1N4148	
	4900 038 379		GA 01 SFH205	IR/Diode
	4900 068 924		GJ 71 Diode LED rot	
	4900 068 554		GJ 72...76 Diode LED rot - GS 31,33 - 35,37,39,41	
	4900 068 537		GS 32,34, Diode LED grün - 36,38,40,42	
	4900 068 569		QS 01 4 MHz	
	4900 068 927		PJ 12 5Kx2 Raumklang	Slider Surround
	4900 068 928		PJ 25,28 10Kx2 Tiefen,Höhen	Bass, Treble
	4900 069 379		RJ 17,12 36,5K/0,25W	
⚠	4900 068 929		RJ 42,43 120/0,3W	
	4900 064 778		RS 11 10/0,3W	

SABA		PA-2060	HiFi 281 2	
Pos.	No.		Bezeichnung	Description
	4900 068 555		SJ 01,02 Schalter Raumeffekt, Klangkorrektur	Switch Surround, Loudness
	4900 068 546		SS 01...07 Schalter Tuner...Aufnahme Wahlschalter	Switch Tuner...Record Selector
			SS 08 Schalter Ein-Aus	SS 08 Switch Power
	4900 068 930		SS 09,10 Schalter Balance	Switch Balance
	4900 068 535		BJ 02 Kopfhörer-Buchse	Head Phones Jack
			Display Platine	**Display Board**
	4900 068 922		GV 01 Display LTD 482 GC	
			Schalter Platine	**Switch Board**
	4900 068 923		SV 01,02 Schalter Lautstärke	Switch Volume
			Grund Platine	**Main Board**
	4900 068 558		IA 30 TDA7250	
	4900 028 039		IB 10,25,75 NJM4560D	
	4900 068 933		IB 40,50, HCF4051BEY - 70...73	
	4900 068 540		IB 90...92 TC4094BP	
	4900 028 039		IE 01,70 NJM4560D	
	4900 068 933		IE 15,35 HCF4051BEY	
	3531 378 000		IP 20 LM317T	
	3531 271 000		IP 36 MC7805CT	
	3521 112 000		TA 03,04 BC558B	
	3521 103 000		TA 06 BC557B	
	4900 068 573		TA38,39, BD911 - 64,68	
	3521 147 000		TA 43,67 BC640	
	3528 518 000		TA 45,69 BC639	
	4900 068 572		TA46,47, BD912 - 71,72	
	3528 509 000		TB 71,72,80, BC548C - 81,91,93, - TE 59,61,66, - 79,81	
	3521 112 000		TB 73,82, BC558B - TE 63,TP 26	
	3521 110 000		TP 23 BC548B	
	3528 492 000		TP 27 BD136	
	3512 216 000		DA 06,76...79 1N4148	
	4900 068 932		DB 91,93 BAT41	
	3512 338 000		DP 02...05, 1N4001 - 31...34	
	3512 181 000		DP 11...14 BY251	
	3512 216 000		DS 08 1N4148	
	4900 068 934		LP 01 Netztrafo	Power Transformer
	4900 068 935		RA 02,03 PTC 330/16V	
	4900 068 936		RA 38,48, 2x0,18/2x2W - 57,63	
⚠	4900 068 937		RA 39,46, 100/0,35W - 64,72	
⚠	4900 068 938		RA 45,69 6,8/0,3W	
⚠	4900 068 939		RA 51,55 4,7/0,5W	
	4900 068 940		RA 70,71 8,2/0,5W	
	4900 069 365		RB 28,46 53,6/0,25W	

SABA		PA-2060	HiFi 281 3	
Pos.	No.		Bezeichnung	Description
	4900 069 366		RB 29,47 10,2/0,25W	
	4900 069 367		RB 31,41 9,1/0,25W	
	4900 069 368		RB 32,42 52,3/0,25W	
	4900 069 369		RB 33,34, 332/0,25W - 43,44	
	4900 069 370		RB 35,45 2,1K/0,25W	
	4900 069 371		RE 04,24 140/0,25W	
	4900 069 372		RE 05,33 200/0,25W	
	4900 069 373		RE 06,12, 287/0,25W - 26,32	
	4900 069 374		RE 07,11, 182/0,25W - 27,31	
	4900 069 375		RE 08,09, 309/0,25W - 28,29	
	4900 069 376		RE 13,25 453/0,25W	
	4900 068 949		RP 02 PTC 25/60V	
⚠	4900 068 921		RP 31,32 1/0,3W	
	4900 068 931		CP 08,09 6800 µF/50V	
	4900 063 477		BP 01 Netzbuchse	AC Socket
	4900 068 557		BA 01 Buchsenleiste Lspr.	Push Terminal
	4900 066 356		BB 02...05 Buchsenleiste Cinch	Jack Board Cinch
	4900 018 560			

A = Austauschteil R = Reparatur-Umtauschteil (kein Voraussetzung möglich)

⚠ **Sicherheitsbauteil Bei Ersatz nur Originalteil verwenden** Änderungen vorbehalten!

⚠ **Componente di sicurezza In caso di sostituzione usare componente originale** Con riserva di modifiche!

⚠ **Safety part When repairing, use original parts only** Subject to modification without notice!

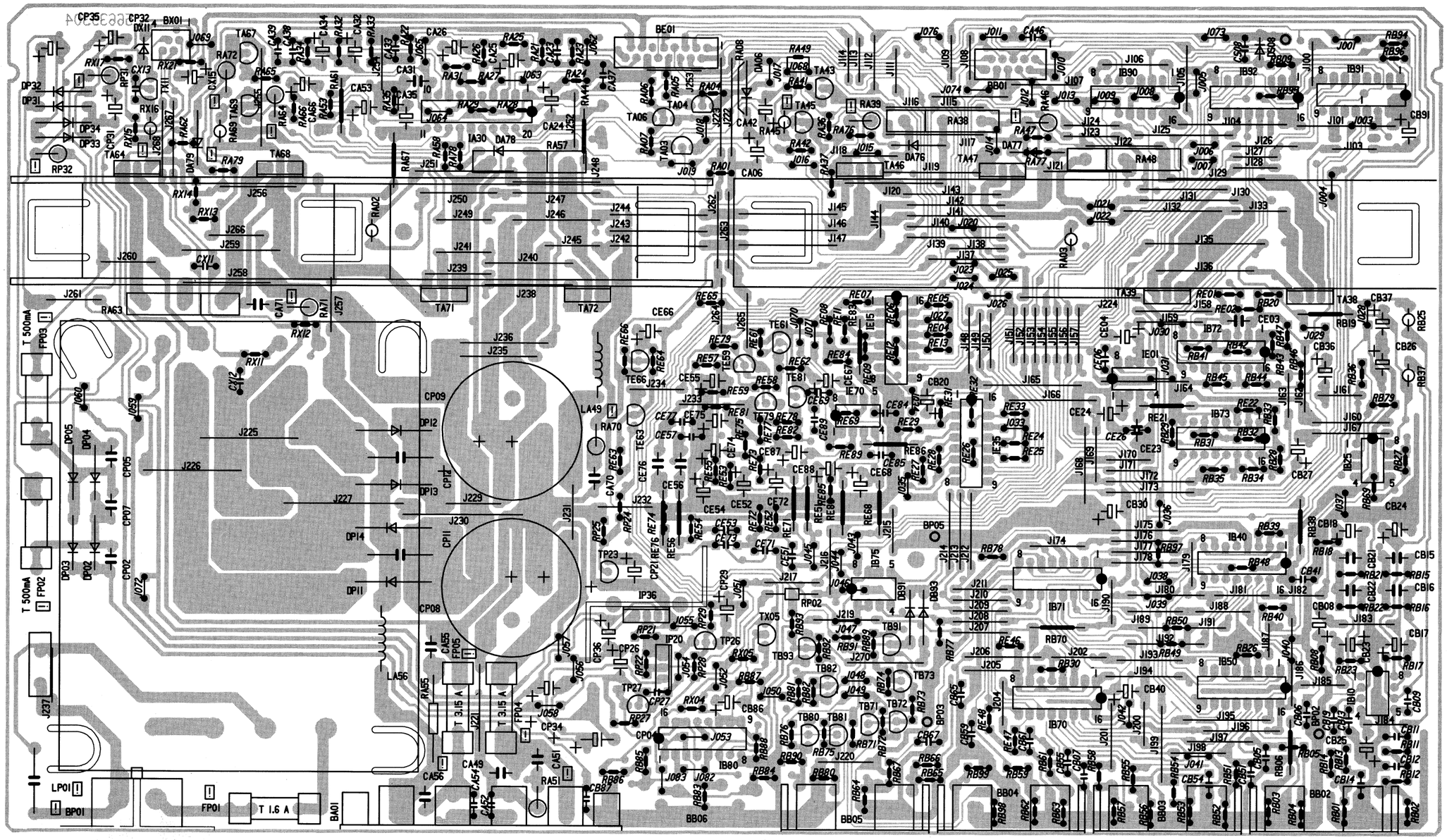
⚠ **Pièce de sécurité N'utilisez que les pièces d'origines** Modifications réservées!

Bildschirmtext

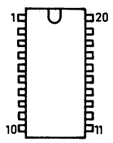
Übrigens: der schnellste Weg für Ersatzteil-Bestellungen:
Btx * 44 100 811 #
Zugang für jeden Fachhändler nach vorheriger Anmeldung möglich.

Gedruckte Schaltung · Piastra stampate · Printed circuit · Circuit imprimé

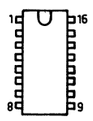
Bauteileseite · Lato inserzione componenti · Component side · Côté d'insertion



(1) Grundplatte
Piastra principale
Main board
Platine principale

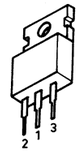


TDA 7250

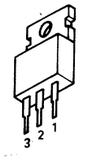


MC 14051 BCP
TC 4094 BP

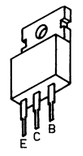
BA 4560



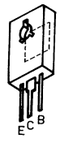
LM 317



MC 7805

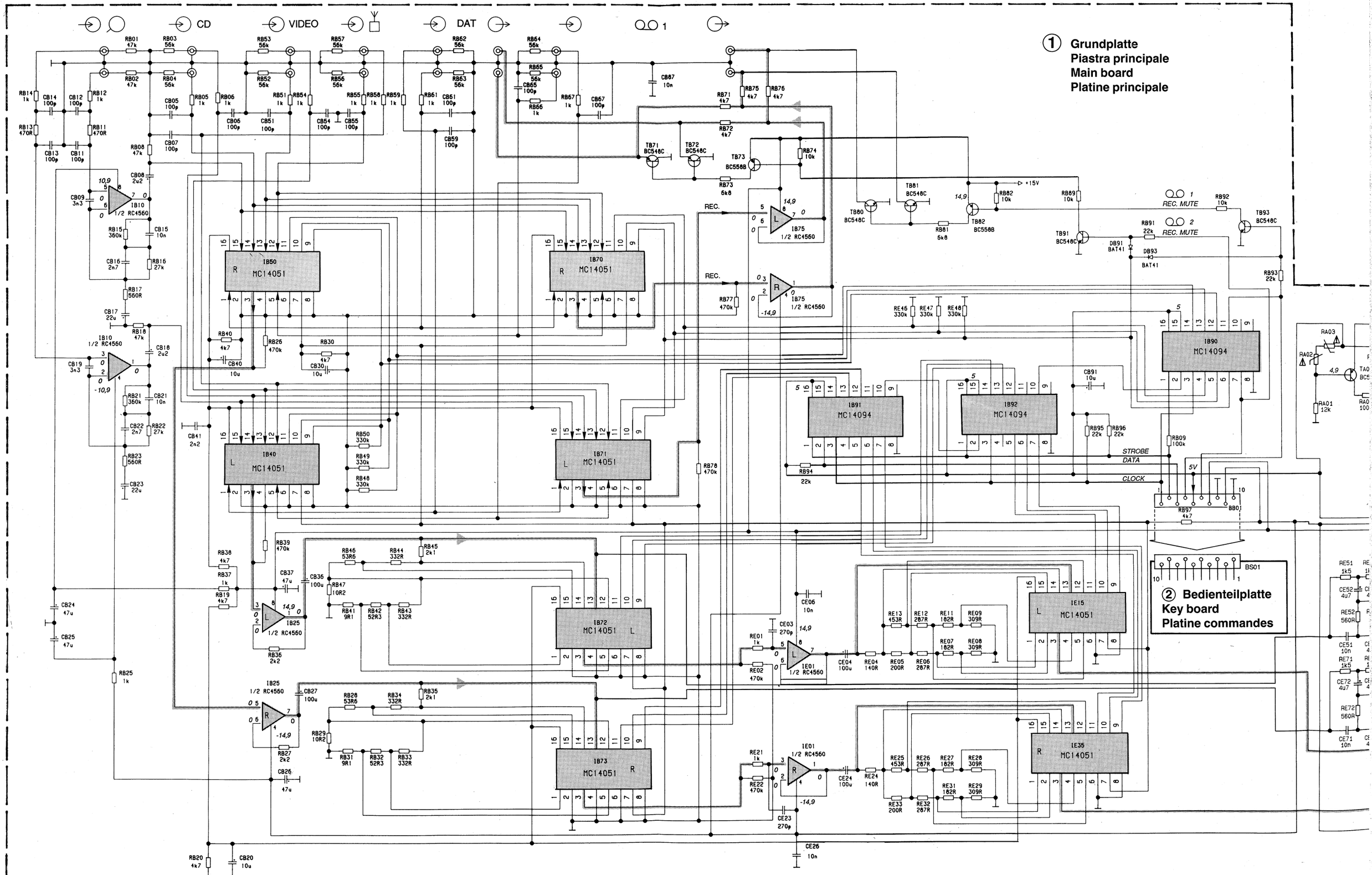


BD 911
BD 912



BD 136

BC 548
BC 557
BC 558
BC 639
BC 640


CD
VIDEO
DAT
1
① Grundplatte
Piastra principale
Main board
Platine principale
② Bedienteilplatte
Key board
Platine commandes
REC.
REC. MUTE
+15V
5V
STROBE
DATA
CLOCK
MC14051
MC14094
1/2 RC4560

VOLUME CONTROL

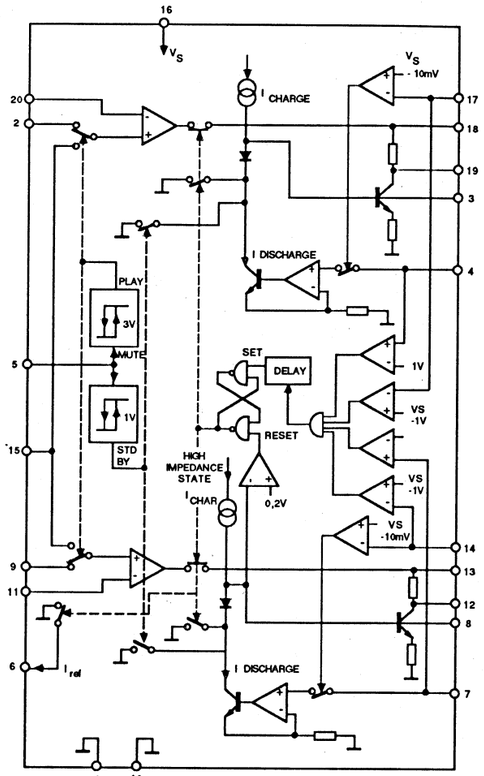
IE 73			VOLUME IND.	IE 35
⑨	⑩	⑪		
1	1	0	– –	H
1	0	1	00	H
1	0	0	2 → 16	A → H
0	1	1	18 → 30	A → H
0	1	0	32 → 48	A → H
0	0	1	50 → 64	A → H
0	0	0	64 → 80	A → H

IE 35	⑨	⑩	⑪
A	1	1	1
B	1	1	0
C	1	0	1
D	1	0	0
E	0	1	1
F	0	1	0
G	0	0	1
H	0	0	0

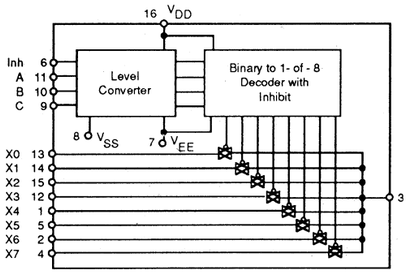
IB 40 / 50 - IB 70 / 71

control			output	function
⑨	⑩	⑪	③ x	source - record
0	0	0	x = 13	VIDEO
0	0	1	x = 14	CD
0	1	0	x = 15	PHONO
0	1	1	x = 12	TUNER
1	0	0	x = 1	DAT
1	0	1	x = 5	TAPE
1	1	0	x = 2	–
1	1	1	x = 4	–

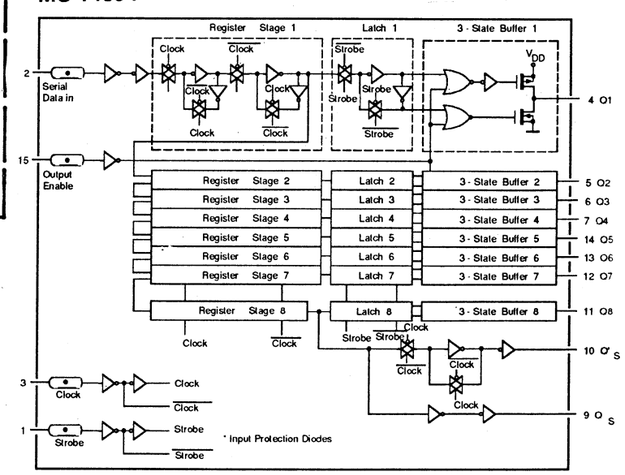
TDA 7250



MC 14051



MC 14094



② **Bedienteilplatte**
Key board
Platine commandes

AF signal L/R

① Grundplatte
Main board
Platine principale

BE01 1 2 3 4 5 6 7 — NC, R, -15V, GND, +15V, L

BJ01 16 15 14 13 12 11

CS05 2n2

-15V

CJ61 100u — R

CJ62 10u — L

+15V

LOUDNESS

RJ64 330R

RJ01 22k

RJ02 22k

RJ13 10k

RJ14 27k

RJ15 10k

RJ23 27k

RJ24 10k

RJ05 39k

RJ04 820k

RJ03 39k

IJ01 RC4560 -11,7

CJ04 680p

RJ16 10k

RJ17 36k5 12,3

IJ20 RC4560

CJ16 18p

CJ18 27p

CJ22 22u

RJ21 36k5

RJ22 47R

CJ23 22u

CJ24 22u

RJ63 330R

RJ18 47R

CJ19 220p

RJ19 47R

CJ21 220p

RJ62 22R

RJ61 22R

R

L

GND

RJ06 10k

RJ07 18k

CJ07 u1

RJ08 15k

IJ01 RC4560 12,3

CJ25 u22

RJ70 470R

RJ11 2k7

TJ11 BC337 -1,5 0,7

RJ25 2k2

RJ26 2k2

PJ25 10k

RJ27 10k

CJ27 10n

IJ30 RC4560

RJ32 100R

CJ32 100p

CJ33 22u

CJ08 390p

RJ09 560R

CJ11 47u

CJ09 u1

PJ12 2x5k

SURROUND

CJ28 10n

RJ28 2k2

PJ28 10k

RJ29 2k2

CJ31 68p

CJ48 22u

CJ34 220p

CJ45 22u

RJ34 47R

CJ35 220p

CJ39 u22

RJ36 2k2

RJ41 2k2

PJ25 10k

RJ39 10k

CJ41 10n

IJ30 RC4560 -13

CJ43 100p

RJ44 100R

CJ36 10n

RJ37 2k2

PJ28 10k

RJ38 2k2

CJ42 68p

CJ13 4u7

SURROUND

SURROUND

RJ12 10k

CJ12 10n

TJ12 BC547B

SURROUND

AMP.

④

RJ58 47R

RJ57 47R

CJ57 10n

CJ58 10n

BJ02

IJ50 RC4560

RJ56 8k2

RJ55 3k9

RJ54 1k

CJ54 47u

CJ53 47u

RJ53 1k

RJ52 47R

CJ52 10n

RJ51 47R

CJ51 10n

4,9

RJ48 8k2

IJ50 RC4560 14,5 -14,5

RJ42 120R

RJ43 120R

RJ49 3k9

RJ47 330R

CJ47 22u

CJ46 22u

RJ46 330R

CJ64 10n

CJ68 22u

RJ59 2k2

CJ69 4u7

12,3 ON
0 STD. BY

RJ69 100R

TJ14 BC548B MUTE ~~MUTE~~

RJ66 4k7

TJ16 BC548B 0,7 -1,8

RJ67 4k7 4,8 4,9

TJ18 BC558C 4,1 4,9

Std. By 0,7

RJ76 12k

TJ19 BC548B

CS09 180p

CS04 2u2

CS03 2u2

QS01 4MHz

CS01 22p

CS12 470p

CS06 220p

RS03 4k7

RS08 6k8

CS02 10u

RS02 10k

DS01 1N4148

RS05 47k

RS06 47k

CS25 2n2

CS26 2n2

B

C

E

CLOCK

STROBE

DATA

5V

BS01 10 1

RS07 6k8

RJ75 22K

SURROUND

SJ01

LOUDNESS

SJ02

BB01 1 10

① Grundplatte
Main board
Platine principale

③

CA07 22u

CA06 22u

IA01 U2505B

4,8 0 0 4,9 3,9 0 0,7

0 0 4,1 1,6 3,3 0 3,3

CA01 150p

RA01 180k

CA02 4u7

RA02 3M3

CA03 27p

GJ76 GJ75 RJ74 68R GJ74 GJ73 RJ72 68R GJ72 GJ71

5xSLP-890F-50 TLSG6600

13 (V) 10 MΩ AF signal R/L

① Grundplatte
Main board
Platine principale

BE01 / BJ01: NC, R, -15V, GND, +15V, L, NC, MUTE, St.by, LOUDN, NC, GND, +5V, R, GND D, L

CS05 2n2 · CS08 22n · CS09 180p · CS04 2u2 · CS03 2u2 · QS01 4MHz · CS12 470p · CS01 22p

IS01 6805 — 3,5V STD. BY

RS03 4k7 · RS08 6k8 · RS02 10k · DS01 1N4148 · RS05 47k · RS06 47k · CS25 2n2 · CS26 2n2 · RS07 6k8

RS11 10R ⚠ · RS12 · RS13 · RS14 · RS10 4x560R · CS11 470u

RS15 · RS16 · RS17 · RS18 · RS19 · RS21 · RS22 7x2k7

TS15 · TS16 · TS17 · TS18 · TS19 · TS21 · TS22 7xBC558C

DS51 · DS52 · DS53 3x1N4148

RS51 4k7 · RS52 4k7 · RS53 10k · RS55 10k · RS56 10k · RS57 10k · RS58 4k7 · RS59 4k7

TS54 · TS55 · TS56 · TS57 4xBC558B

RS31 120R · RS41 120R

RS42 · RS40 · RS32 · RS34 · RS36 · RS38 · RS37 7x47R

Rec.- Select

GS31 · GS33 · GS35 · GS37 · GS39 · GS41 · GS32 · GS34 · GS36 · GS38 · GS40 · GS42

Tu · Tape · CD · Vid. · DAT · Phono

Sources

SS01 · SS02 1 CD · SS03 VID. · SS04 · SS05 DAT. 2 · SS06 · SS07 Shift

SS08 · SS09 · SS10

RS23 · RS24 2x10k

RS28 10k · RS27 10k · RS26 10k · RS25 10k

CS28 · CS27 · CS24 · CS23 4x2n2

BS02 · BV01 · GV01 · BS03 · BV03

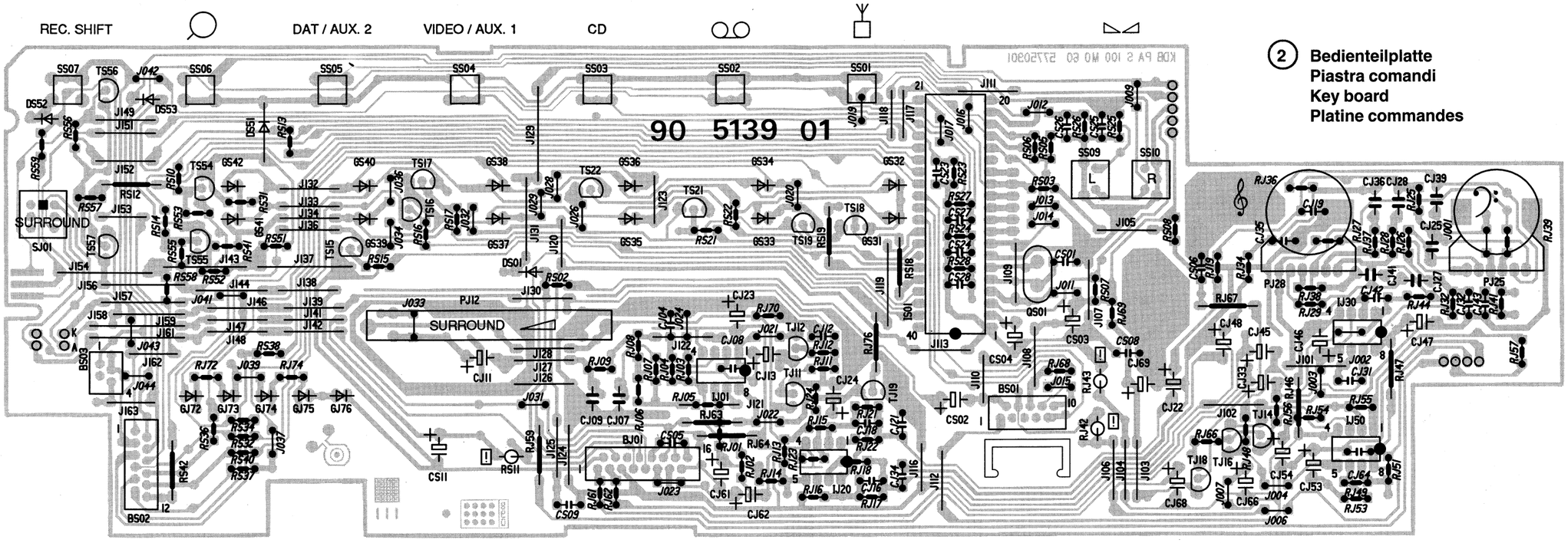
SV01 · SV02

② Bedienteilplatte
Piastra comandi
Key board
Platine commandes

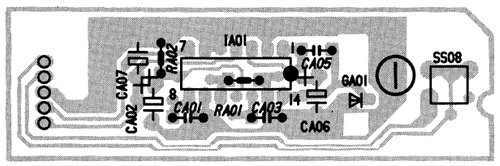
③ CA07 22u · CA06 22u · IA01 U2505B · CA05 10n · GA01 SFH205 · CA02 4u7 · RA01 180k · RA02 3M3 · CA03 27p

Gedruckte Schaltung · Piastra stampate · Printed circuit · Circuit imprimé

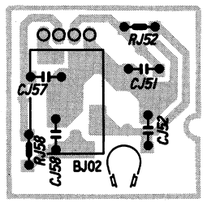
Bauteileseite · Lato inserzione componenti · Component side · Côté d'insertion



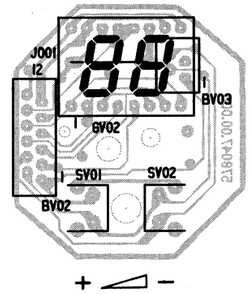
(2) **Bedienteilplatte**
Piastra comandi
Key board
Platine commandes



(3) **IR Empfängerplatte**
Piastra ricevitore IR
IR Receiver board
Platine recepteur infra-rouge



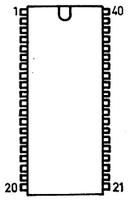
(4) **Kopfhörerbuchsenplatte**
Piastra presa per cuffia
Headphone jack board
Platine prise casque



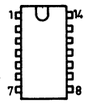
(5) a+b **Lautstärkeanzeige- und Steuerplatte**
Piastre comandi e indicatore di volume
Volume display and control boards
Platines commandes et affichage de volume

BC 337
BC 547
BC 548
BC 558

BA 4560



MC 7805 U3S



U 250

Blockschaltbild · Schema a blocci · Block diagram · Schéma synoptique